

Universal Power Supply Installation Guide



CONTENTS

Tubing Connections	1
Electrical Connections	2
Positioning	2
Bypassing Air Pressure Switch.....	3
Tubing Connectors	4
Specifications	4
Transportation / Storage Conditions	4

TUBING CONNECTIONS

- (1) Cut 1/8 in. red tubing (1, Figure 1) *[between air and water master pilot shut-off valves]*; then connect both ends to tee fitting (2) *[1/8 in. red tubing from power supply]*.

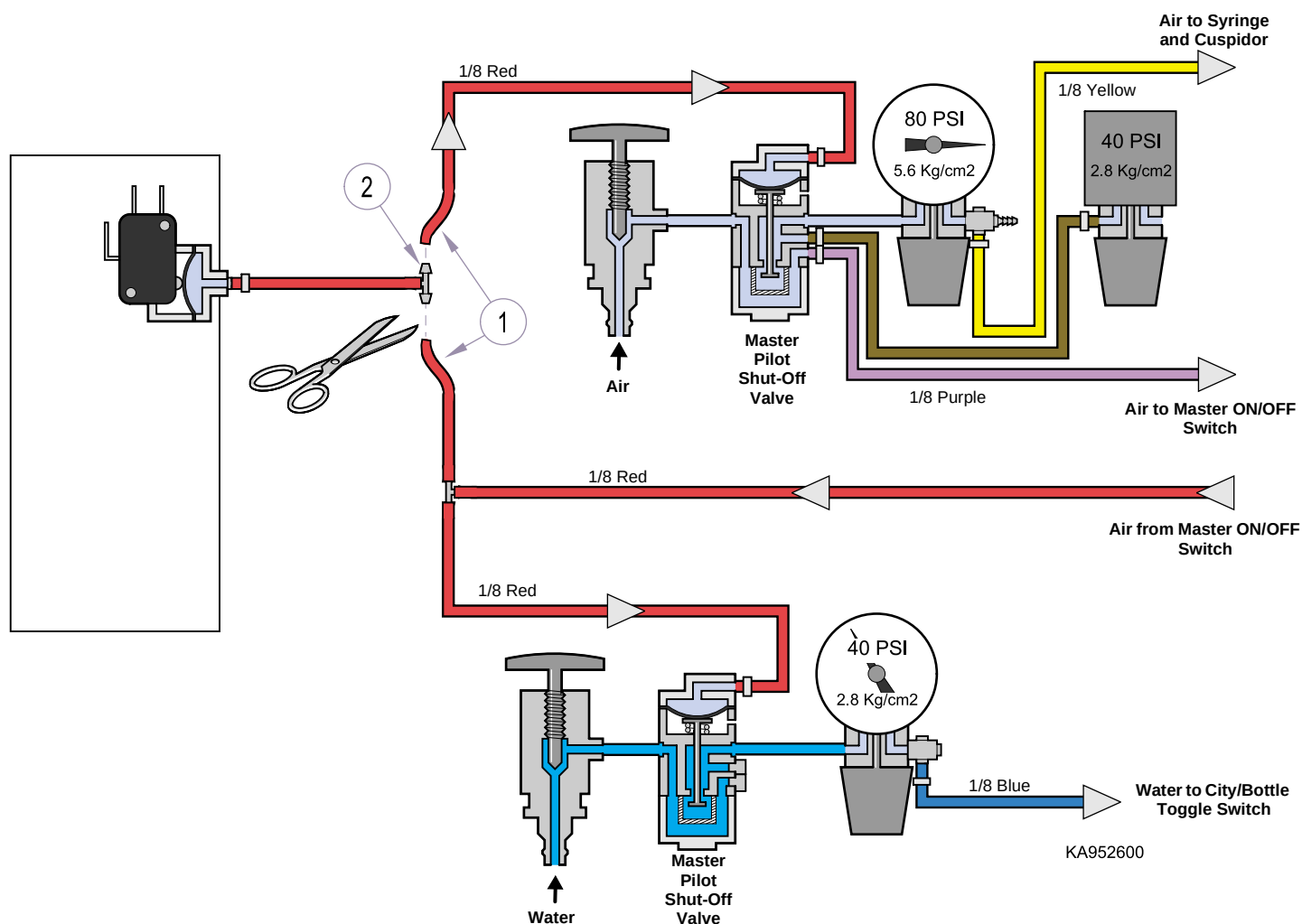


Figure 1. Tubing Connections

UNIVERSAL POWER SUPPLY

ELECTRICAL CONNECTIONS

**ATTENTION!**

If a receptacle is not available, install proper receptacle according to local codes. Electrical requirements are listed below:

115 VAC Models 115 VAC $\pm 10\%$, 50/60 Hz
3 amp, single phase

230 VAC Models 230 VAC $\pm 10\%$, 50/60 Hz
1.5 amp, single phase

Power To Power Supply

- (1)** Plug power cord (1, Figure 2) **[from transformer]** into receptacle (2).

Accessories

- (2)** Connect accessory wiring harness (3) **[from umbilical]** to connector (A) of transformer.

Light**NOTE**

12:00 casework mounted delivery systems do not contain light wiring harness in the umbilical.

- (3)** Connect light wiring harness (4) **[from umbilical]** to connector (B) of transformer.

POSITIONING

- (1)** Position transformer in junction box or cabinet being careful not to pinch/kink any wires or tubing.

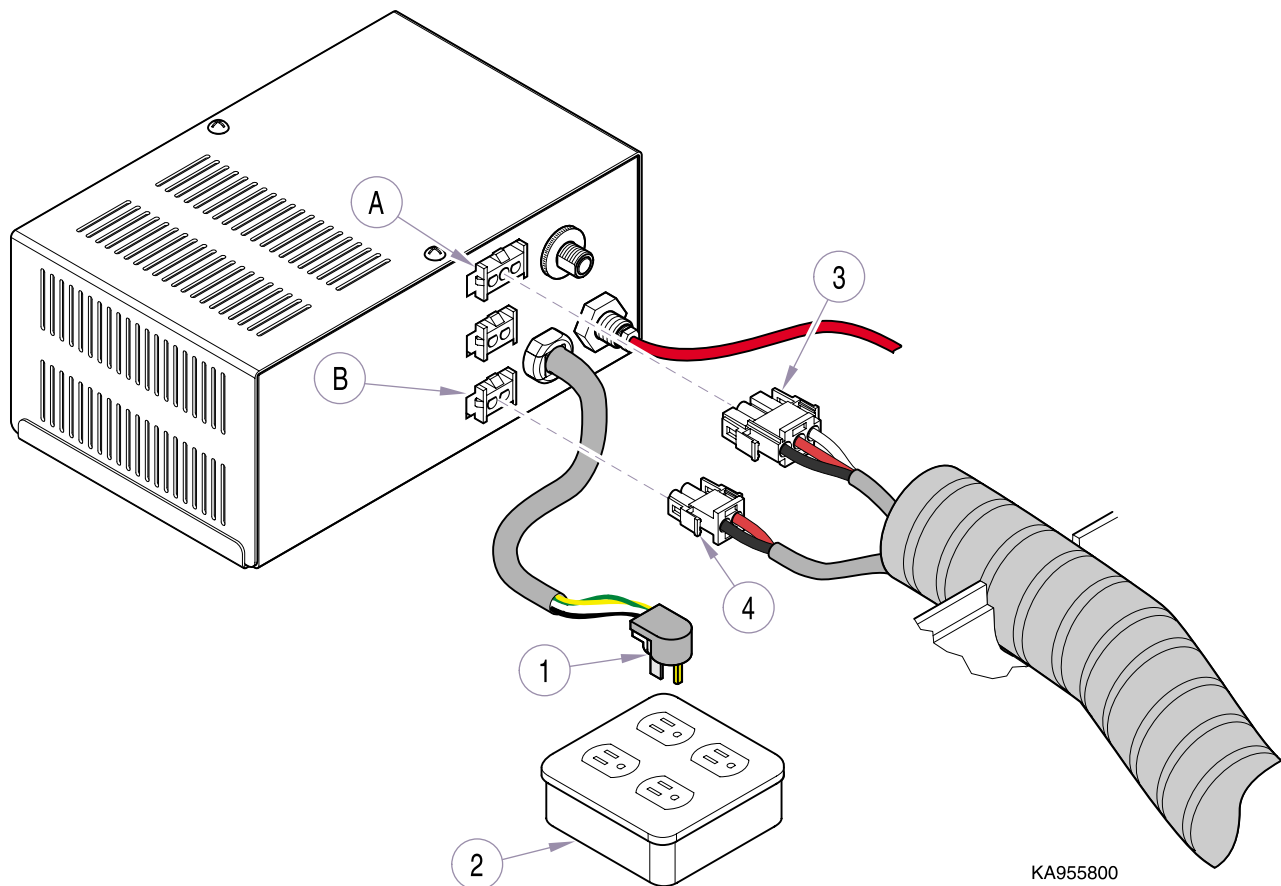


Figure 2. Electrical Connections

ATTENTION!

If installing the Universal Power Supply in a location where air pressure is not available (ex. dealer showroom), it will be necessary to bypass the air pressure switch to allow operation. If air pressure is available, this procedure is not necessary.

BYPASSING THE AIR PRESSURE SWITCH**WARNING**

To prevent the possibility of electrical shock, always disconnect electrical power to the universal power supply before removing cover. Failure to comply with these instructions could result in severe personal injury or death.

- (1)** Disconnect electrical power to universal power supply.
- (2)** Remove two screws (1, Figure 3) and cover (2).
- (3)** Disconnect yellow wire (3) from terminal (A) of air pressure switch (4).
- (4)** Connect yellow wire (3) to terminal (B) of air pressure switch (4).
- (5)** Install cover (2) and secure with two screws (1).
- (6)** Reconnect electrical power to universal power supply.

NOTE

After completing this procedure, the universal power supply will function without air pressure. If the power supply is used with a Midmark delivery unit, the position of the master ON/OFF switch will not affect the power supply (i.e. the light will function with the master ON/OFF switch OFF).

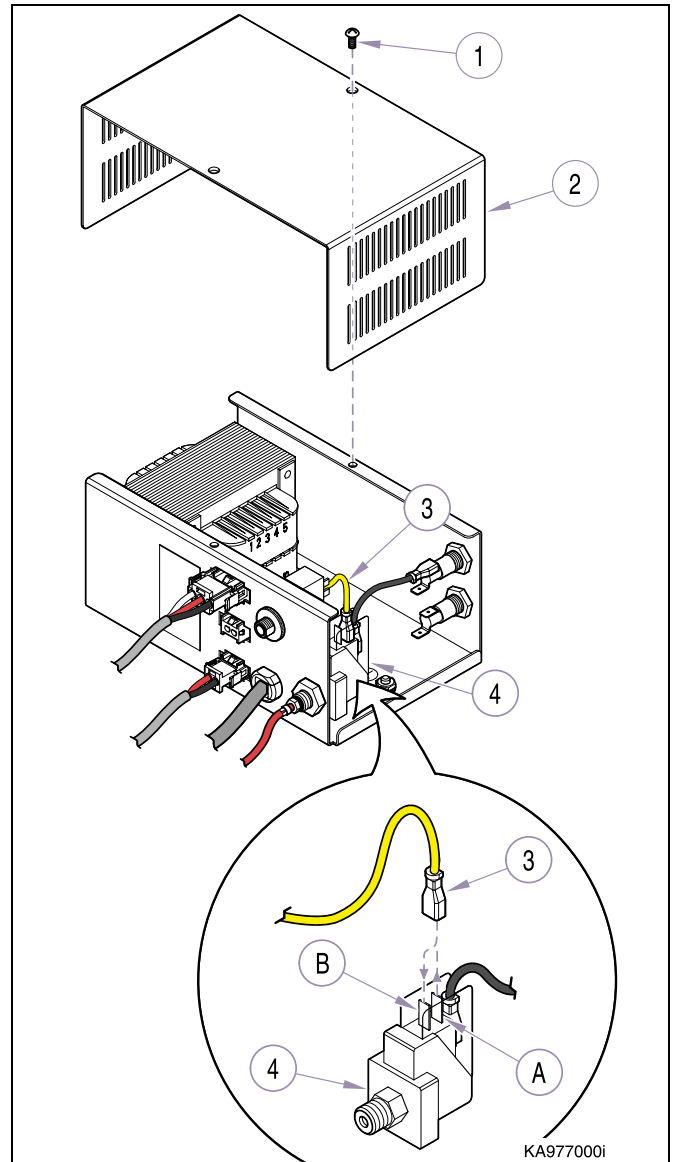


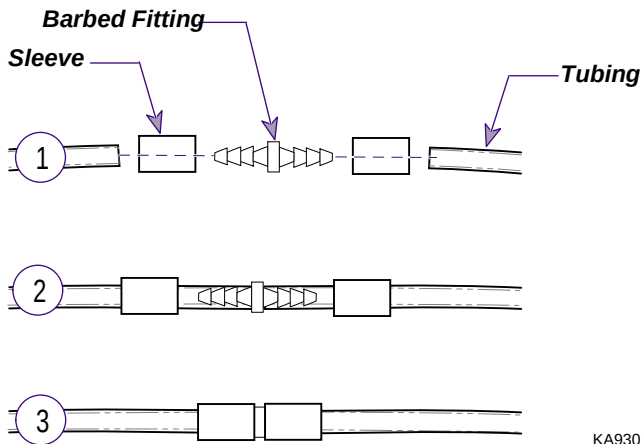
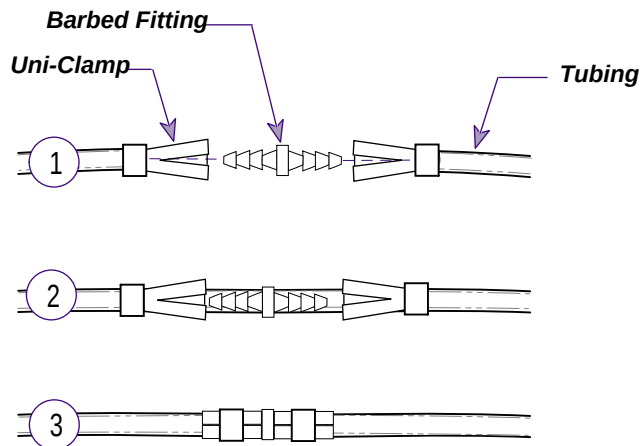
Figure 3. Bypassing Air Pressure Switch of Universal Power Supply

TUBING CONNECTORS

When connecting internal tubing to metal barbed fittings during installation, it is necessary to use the plastic retainers included with operatory components.

For **1/8 in.** tubing use **Uni-Clamp**

For **1/4 in.** tubing use **Sleeve**



KA930701

SPECIFICATIONS

<u>Description</u>	<u>Specifications</u>	<u>Data</u>
Weight:	10 lbs. (4.5 kg)	
Dimensions:	7.5 in. (19.0 cm) L x 3.5 in. (8.9 cm) W x 4.5 in. (11.4 cm) H	
Electrical Requirements:		
115 VAC Models	115 VAC $\pm 10\%$, 50/60 Hz 3 amp, single phase	
230 VAC Models	230 VAC $\pm 10\%$, 50/60 Hz 1.5 amp, single phase	
Fuse Specifications:		
115 / 230 VAC Models	Type T, 4 amp, 250 VAC 5 x 20 mm, Time Lag	
Classifications:	Class 1, Type B Applied Part, Ordinary equipment	
Certifications:		
Midmark Corporation	ISO-9001 Certified	
115 VAC Units	UL2601-1 CAN/CSA 22.2, #601.1-M90	
230 VAC Units	Complies to the applicable revision of the MDD 93/42/EEC, Annex VII and the applicable requirements of EN60601-1, EN60601-1-2, EN60601-1-4	

TRANSPORTATION / STORAGE CONDITIONS

- Ambient Temperature Range:.....-22°F to 140°F
(-30°C to 60°C)
- Relative Humidity.....10% to 90%
(non-condensing)
- Atmospheric Pressure 500hPa to 1060
hPa (0.49atm to 1.05atm)

MIDMARK

General Information

Electromagnetic Interference

Midmark dental operator components are designed and built to minimize electromagnetic interference with other devices. However, if interference is noticed between another device and this operator, remove interfering device from room or plug product into an isolated circuit.

Symbols & Notes



DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. The DANGER symbol is limited to the most extreme situations.



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



EQUIPMENT ALERT

Indicates an imminently or potentially hazardous situation which, if not avoided, will or may result in serious, moderate, or minor equipment damage.

NOTE

Amplifies an operating procedure, practice, or condition.



Type B, Applied Part



Consult operator's manual for important information.



Dangerous voltage / shock hazard.



Fuse rating specification



Protective earth ground



Fragile



Proper shipping orientation



Minimum and maximum storage temperatures



Keep dry



Hot surface



ON



STANDBY



Duty cycle: (motor run time 30 sec. on, 5 min. off).



Cup Fill water flow adjustment.



Bowl Flush water flow adjustment



"City" water



Self-contained (distilled) water



Handpiece drive air adjustment



Handpiece/Syringe coolant water flow adjustment



Handpiece coolant air adjustment / Air Quick Disconnect



Water Quick Disconnect



Unlocked (Chair rotation)



Locked (Chair rotation)



Handpiece flush button
(**Note:** Remove handpiece from station; then remove handpiece from tubing connector).

[Return To Table Of Contents](#)